

Amendments to the Specification:

Please replace the paragraph beginning at page 2, line 3, with the following rewritten paragraph:

--The present invention is of an energy dense energetic material comprising: a layer of material comprising one or more metals substantially not in oxide form; and a layer of material comprising one or more metals substantially in oxide form; and wherein the layers in combination are energetic and have a thickness of less than or equal to approximately 100 nm. In the preferred embodiment, the layers have a thickness of less than or equal to approximately 10 nm. Either or both types of layers can be present as a plurality of layers, preferably wherein each layer of material comprising one or more metals substantially in oxide form is adjacent to at least one layer of material comprising one or more metals substantially not in oxide form. The non-oxide layer(s) preferably comprise pure metal or compounds of one or more of Al, Ti, Li, and Mg. The oxide layer(s) preferably comprise compounds of one or more of W, P, Fe, and Mn. The non-oxide layer(s) may comprise one or more compositions from the group consisting of metal hydrides and metals with interstitial hydrogen. The material is preferably fabricated by plasma enhanced chemical vapor deposition and adhered to a substrate selected from polymers, ceramics, glass, metals, and curved surfaces. The layers may form, for example, an energetic material such as TNT, RDX, ~~Tritinal~~ Tritonal, or AFX-757. The material may form energetic fragments upon detonation, such as elemental Mn or elemental P. The material may be made to be useful in an anti-tamper device.--

Please replace the paragraph beginning at page 6, line 7, with the following rewritten paragraph:

--The present invention is useful in creating enhanced conventional explosives. Examples are explosives using various reactive hydrides, such as LiH_x , MgH_x , AlH_x , and TiH_x , and/or various oxides, such as P_2O_5 , Fe_2O_3 , and WO_2 , as well as explosives such as TNT with aluminum flakes (Tritinal Tritonal), cyclotrimethylenetrinitramine (RDX), and AFX-757, an explosive fill used in the Joint Air-to-Surface Stand-off Missile (JASSM) and developed at Air Force Research Laboratory's Energetic Materials Branch. Such enhanced explosives can be designed as necessary for optimized cost, weight, heat, and work.--